

Appendix A
Public Notification that a potential event was occurring
(40 CFR §50.14(c)(1))

FIGURE A-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

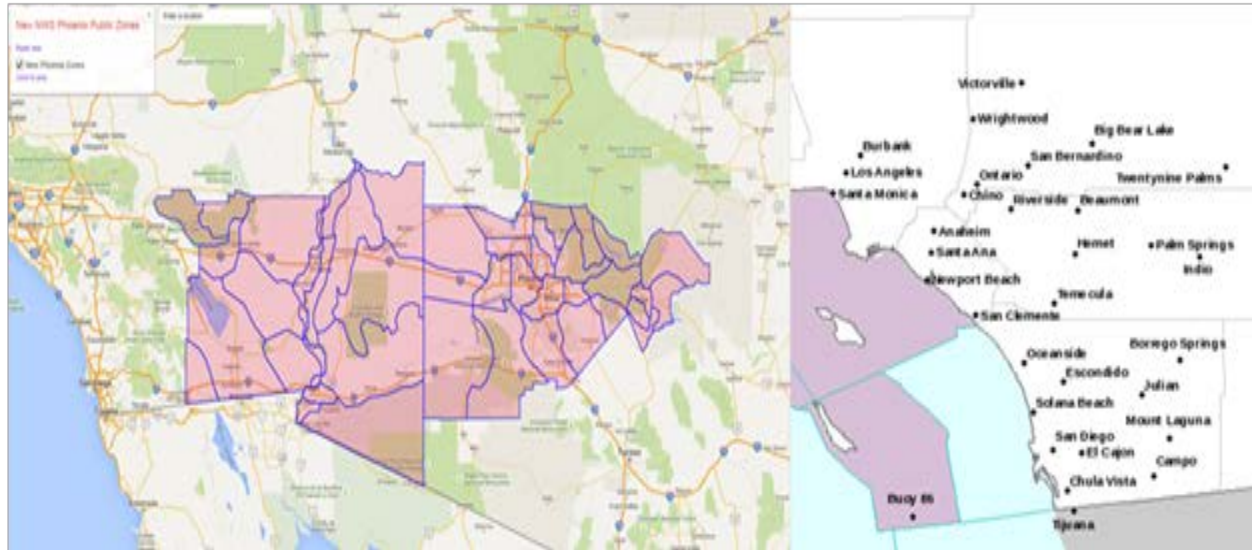


Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE A-2
WEATHER DISTURBANCES SET TO MOVE INTO SOUTHERN CALIFORNIA

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
730 PM MST FRI APR 22 2016
.SYNOPSIS...
TEMPERATURES WILL BE ON A DOWNHILL TREND THIS WEEKEND AS THE **FIRST OF THREE LOW PRESSURE SYSTEMS MOVE INTO THE REGION**. HIGHS WILL DROP INTO THE 80S THROUGH NEXT WEEK. BREEZY CONDITIONS WILL DEVELOP MONDAY AND TUESDAY BUT WITH LITTLE CHANCE FOR ANY RAINFALL.

DISCUSSION...
A LARGE NEGATIVE HEIGHT ANOMALY WAS TRANSLATING INTO NRN CALIFORNIA THIS EVENING WITH THE MORE PRONOUNCED HEIGHT FALLS AND MIDDLELEVEL FRONTOGENETICAL FORCING CROSSING THE SIERRA NEVADA. **SFC LOW PRESSURE WAS INTENSIFYING OVER SRN NEVADA** WHILE AN ASSOCIATED FRONTAL BOUNDARY WAS DESCENDING SOUTH TOWARDS THE FORECAST AREA. HOWEVER WITH LIMITED MOISTURE...CONTINUED RISING HEIGHTS AND SUBSIDENCE LOCALLY...AND ASCENT FIELDS REMOVED FROM THE LOCAL AREA...THE **TIGHTENING GRADIENT AND GUSTY WINDS WILL BE THE PRIMARY WEATHER CONCERN INTO SATURDAY MORNING**.
THE COMBINATION OF ABNORMALLY WARM AFTERNOON TEMPERATURES AND EVENING WIND GUSTS HAVE CAUSED TEMPERATURES TO HOLD MORE STEADY THAN THE TYPICAL BEGINNING OF THE NOCTURNAL CYCLE. IN ADDITION TO ADJUSTING TEMPERATURES...HAVE MADE NOTABLE CHANGES TO SKY COVER WHICH HAS BEEN PREDOMINANTLY CLEAR...AND WILL ONLY BE TEMPORALLY AFFECTED BY A BAND OF MID/HIGH CLOUDS LATER TONIGHT. OTHERWISE...STILL LOOKS LIKE A COMFORTABLE EVENING AND SPECTACULAR WEEKEND FROM A WEATHER STANDPOINT.

Fig A-2: A series of strong weather disturbances were set to move through the region.
Source: Iowa Environmental Mesonet;
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201604230230>

FIGURE A-3
WIND ADVISORY FOR SAN DIEGO COUNTY DESERTS

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
724 PM PDT SAT APR 23 2016
...STRONG WINDS SUNDAY EVENING THROUGH MONDAY EVENING...
AN AREA OF LOW PRESSURE WILL DROP SOUTH AND MOVE ACROSS THE
GREAT BASIN SUNDAY NIGHT AND MONDAY...BRINGING STRONG AND GUSTY
WINDS TO THE REGION.
CAZ055-056-058-060>062-065-241300-
/O.NEW.KSGX.WI.Y.0024.160425T0000Z-160426T0600Z/
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
SAN GORGONIO PASS NEAR BANNING-
724 PM PDT SAT APR 23 2016
...WIND ADVISORY IN EFFECT FROM 5 PM SUNDAY TO 11 PM PDT MONDAY...
THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 5 PM SUNDAY TO 11 PM PDT
MONDAY.
* WINDS...WESTERLY WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH.
OCCASIONAL GUSTS TO 60 MPH THROUGH THE PASSES AND CANYONS.
* TIMING...THE STRONGEST WINDS WILL OCCUR SUNDAY EVENING AND
AGAIN MONDAY EVENING.
* LOCATION...SOUTHERN CALIFORNIA MOUNTAINS AND DESERTS.
* VISIBILITY...MAY BE BRIEFLY REDUCED TO NEAR ZERO IN BLOWING
DUST AND SAND IN THE DESERTS.
* IMPACTS...STRONG WINDS WILL MAKE TRAVEL DIFFICULT FOR HIGH
PROFILE VEHICLES. BLOWING DUST AND SAND MAY CAUSE TRAVEL
DIFFICULTIES AND HEALTH HAZARDS.
PRECAUTIONARY/PREPAREDNESS ACTIONS...
A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.

Fig A-3: A low pressure passing through the region brought gusty winds to the area. A Wind Advisory was issued April 23 effective through April 25, 2016 for the mountains and deserts of San Diego County. Winds up to 30 mph with gusts of 50 mph were forecasted, along with severely limited visibility due to blowing dust and sand. Source: Iowa Environmental Mesonet;
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201604240224>

FIGURE A-4
WIND ADVISORY IN EFFECT FOR IMPERIAL COUNTY APRIL 23, 2016

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
352 AM MST SUN APR 24 2016
.A DRY COLD FRONT WILL SWEEP ACROSS SOUTHERN CALIFORNIA AND ARIZONA
TONIGHT AND MONDAY LEADING TO PERIODS OF STRONG WINDS.
CAZ030-033-250115-
/O.NEW.KPSR.WI.Y.0008.160425T0000Z-160426T0500Z/
JOSHUA TREE NATIONAL PARK-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...IMPERIAL...
THE SALTON SEA
352 AM PDT SUN APR 24 2016
...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 10 PM PDT
MONDAY...
THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 5 PM THIS AFTERNOON TO 10 PM
PDT MONDAY.
* AFFECTED AREA...IMPERIAL COUNTY AND JOSHUA TREE NATIONAL PARK.
* TIMING...STARTING LATE THIS AFTERNOON AND CONTINUING FOR MUCH OF
THE NIGHT THEN RESTRENGTHENING DURING THE DAY MONDAY BEFORE
WEAKENING LATE MONDAY EVENING.
* WINDS...WEST AT 25-35 MPH WITH GUSTS OF 40-45 MPH...LOCALLY
GUSTING 50-55 MPH ALONG INTERSTATE 8 NEAR THE SAN DIEGO COUNTY
BORDER.
* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED
VISIBILITY IN BLOWING DUST AND SAND AS WELL AS STRONG CROSS-WINDS
ON NORTH-SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS INCLUDE
INTERSTATE 8...INTERSTATE 10...HIGHWAY 111...AND HIGHWAY 78.
PRECAUTIONARY/PREPAREDNESS ACTIONS...
WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD
RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES
IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

Fig A-4: A Wind Advisory was issued on April 24, 2016 effective through April 25, 2016 for Imperial County. Winds of 35 mph with gusts reaching 45 mph were forecasted. Blowing dust was also expected. Source: Iowa Environmental Mesonet;
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201604241052>

FIGURE A-5
STRONG WINDS AND BLOWING DUST/SAND FOR THE DESERTS APRIL 24, 2016, 2016

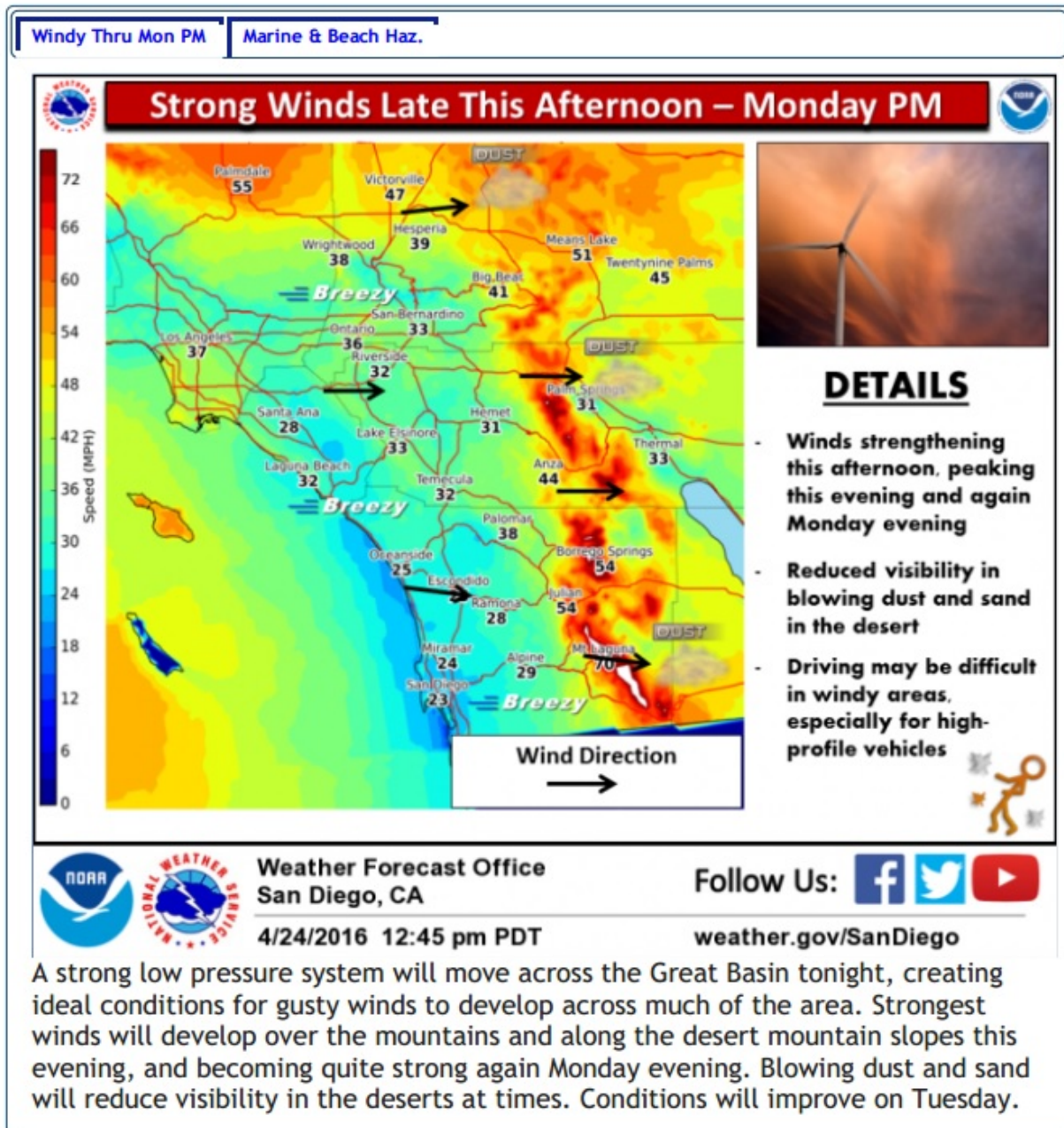


Fig A-5: A Weather Story issued by the San Diego office on April 24, 2016 forecasted that the deserts would experience strong winds along with widespread blowing dust. Source: NWS Phoenix office Weather Story

FIGURE A-6
POWERFUL WEATHER SYSTEM BRINGING STRONG WINDS APRIL 24, 2016, 2016

AREA FORECAST DISCUSSION
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 159 PM PDT SUN APR 24 2016
 DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
 COUNTIES...
 VISIBLE SATELLITE THIS AFTERNOON SHOWS AREAS OF HIGH CLOUDS
 MOVING IN FROM THE WEST. MEANWHILE...TEMPERATURES ARE SEVERAL
 DEGREES ABOVE WHAT THEY WERE AT THIS TIME YESTERDAY FOR A MAJORITY
 OF THE AREA.
 ON WATER VAPOR SATELLITE...A TROUGH IS MOVING INTO THE NORTHWEST.
 THIS TROUGH WILL DEEPEN ACROSS THE WEST COAST LATE TODAY INTO
 MONDAY AND THEN MOVE EAST LATE MONDAY. THE TROUGH IS LACKING
 SIGNIFICANT MOISTURE...SO SHOWER CHANCES WILL BE MINIMAL...WITH
 HI-RES MODELS FOCUSING ANY LIGHT PRECIPITATION THAT OCCURS OVER
 THE FAR INLAND VALLEYS AND MOUNTAINS LATE TONIGHT THROUGH MONDAY
 MORNING. OF BIGGER IMPACT WILL BE THE WINDS...WITH ONSHORE FLOW
 STRENGTHENING SIGNIFICANTLY THIS EVENING...AND STRONG WESTERLY
 WINDS CONTINUING THROUGH MONDAY NIGHT. MODELS SHOW PRESSURE
 GRADIENTS FROM SAN DIEGO TO LAS VEGAS INCREASING TO AROUND 10-11
 MB ONSHORE...AND WESTERLY 850 MB WINDS INCREASING TO 20-30 KT.
 THIS SHOULD BE ENOUGH TO SUPPORT WIDESPREAD 45-50 MPH GUSTS ALONG
 MOUNTAIN RIDGES AND DESERT SLOPES...THROUGH PASSES/CANYONS...AND
 INTO WIND-FAVORED DESERT AREAS...WITH LOCAL 60 MPH GUSTS POSSIBLE.
 THE WINDS ARE LIKELY TO GET STRONGER MONDAY AFTERNOON THROUGH
 MONDAY EVENING AS AN UPPER LEVEL WAVE ROTATES AROUND THE TROUGH
 FROM THE NORTHWEST AND MOVES THROUGH SOUTHERN CALIFORNIA. HI-RES
 MODEL RUNS CONTINUE TO SHOW STRONGER WINDS FOR MONDAY AFTERNOON
 AND EVENING...BUT THERE IS LITTLE INDICATION THAT VERY STRONG
 WINDS WOULD REACH THE DESERT FLOOR...SO HAVE HELD OFF ON AN
 UPGRADE TO A HIGH WIND WARNING FOR NOW. REGARDLESS...THIS LOOKS
 LIKE A SOLID WIND ADVISORY EVENT FOR THE MOUNTAINS AND
 DESERTS...AND BLOWING DUST/SAND COULD BE AN ISSUE. HOWEVER...HAVE
 ISSUED A WIND ADVISORY FOR THE COAST...VALLEYS AND SANTA ANA
 MOUNTAINS/FOOTHILLS AS HI- RES GUIDANCE SHOWS THE POTENTIAL FOR
 35-40 MPH GUSTS IN THOSE AREAS MONDAY AFTERNOON AND EARLY EVENING.
 WITH THE TROUGH MOVING THROUGH...

Fig A-6: An Area Forecast Discussion released by the NWS San Diego office on April 24, 2016 forecasted that high winds would be impacting the area. The winds were caused by a steepening pressure gradients brought on by the passage of a deepening trough.
 Source:

http://www.wrh.noaa.gov/total_forecast/getprod.php?prod=XXXAFDSGX&wfo=SGX

FIGURE A-7
SOUTHEASTERN CALIFORNIA TO RECEIVE STRONGEST WINDS APRIL 24, 2016, 2016

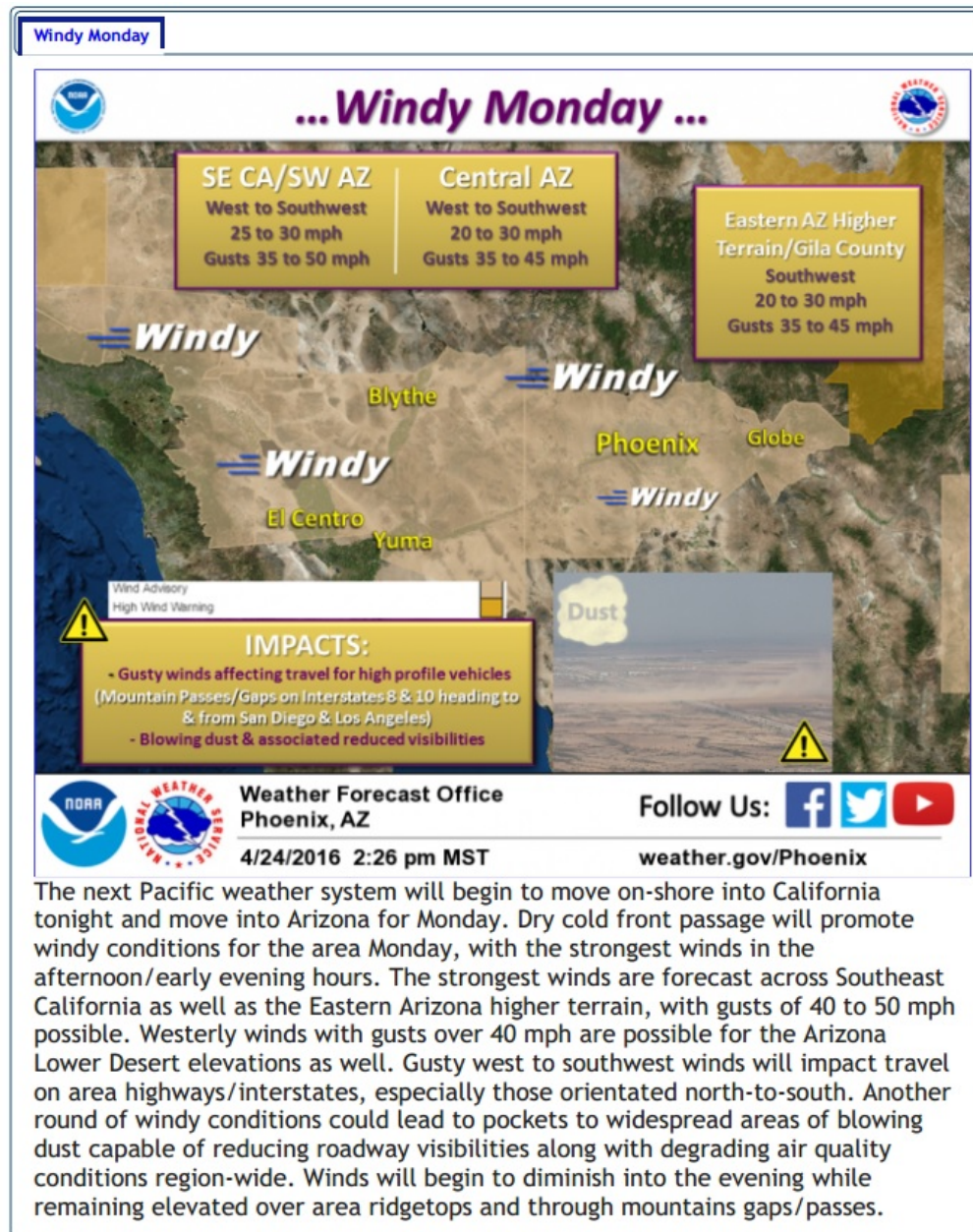


Fig A-7: A Weather Story issued by the Phoenix office on April 24, 2016 forecasted that southeastern California would receive the strongest winds along with widespread blowing dust. Source: NWS Phoenix office Weather Story

FIGURE A-8
WIND ADVISORY FOR IMPERIAL COUNTY REMAINED IN EFFECT APRIL 25, 2016, 2016

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
301 AM MST MON APR 25 2016

.A COLD FRONT WILL SWEEP ACROSS SOUTHERN CALIFORNIA AND ARIZONA
TODAY LEADING TO STRONG WINDS AND AREAS OF BLOWING DUST.

CAZ030-033-252330-
/O.CON.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/
JOSHUA TREE NATIONAL PARK-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...**BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...IMPERIAL...**
THE SALTON SEA
301 AM PDT MON APR 25 2016

...**WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM PDT THIS EVENING...**

* AFFECTED AREA...IMPERIAL COUNTY AND JOSHUA TREE NATIONAL PARK.

* TIMING...STRONG GUSTY WINDS THROUGH THE DAY WITH THE STRONGEST
GUSTS LATE THIS AFTERNOON AND EARLY EVENING THROUGH IMPERIAL
COUNTY

* WINDS...**WESTERLY AT 25 TO 35 MPH WITH GUSTS OF 40 TO 45**
MPH...LOCALLY GUSTING UP TO 55 MPH ALONG INTERSTATE 8 NEAR THE SAN
DIEGO COUNTY BORDER.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED
VISIBILITY IN **BLOWING DUST AND SAND AS WELL AS STRONG CROSS WINDS**
ON NORTH-SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS INCLUDE
INTERSTATE 8...INTERSTATE 10...HIGHWAY 111...AND HIGHWAY 78.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR
HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

Fig A-8: The Wind Advisory issued on April 23 for Imperial County remained in effect for
April 25, 2016. Local gusts were expected to reach 55 mph. Dangerous crosswinds and
blowing dust/sand was expected. Source: NWS Phoenix office

FIGURE A-9
WINDS UP TO 50 MPH AND BLOWING DUST FOR SOUTHEASTERN CALIFORNIA APRIL 25, 2016, 2016

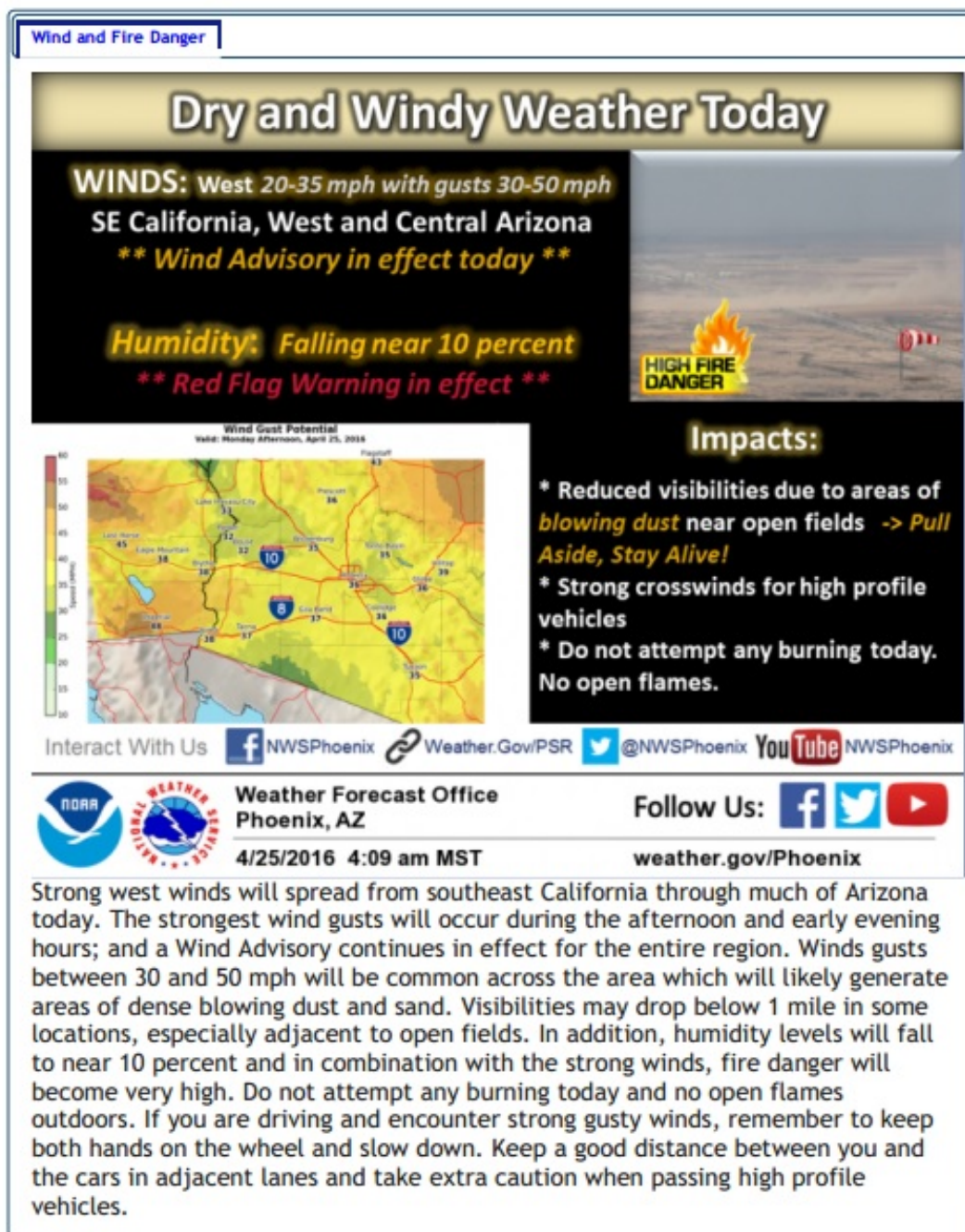


Fig A-9: The strength of the weather system impacted not only southeastern California with high winds and blowing dust/sand, but also a large swath of Arizona. Source: NWS Phoenix Weather Story

FIGURE A-10
WEATHER DISTURBANCE TO BRING GUSTY WINDS
INCREASED SURFACE GRADIENTS APRIL 25, 2016, 2016

AFDPSR
 AREA FORECAST DISCUSSION
 NATIONAL WEATHER SERVICE PHOENIX AZ
 451 AM MST MON APR 25 2016
 UPDATE...UPDATED AVIATION DISCUSSION.

SYNOPSIS...

SEVERAL WEATHER DISTURBANCES WILL PASS THROUGH THE REGION THIS WEEK BRINGING OCCASIONALLY STRONGER WIND GUSTS...COOLER THAN NORMAL TEMPERATURES...AND A REMOTE CHANCE OF AN ISOLATED SHOWER. THE FIRST SYSTEM WILL MOVE INTO THE AREA TODAY WITH STRONG WINDS AND SOME BLOWING DUST. THE NEXT AREA OF LOW PRESSURE WILL AFFECT THE REGION THURSDAY WITH MORE BREEZY CONDITIONS AND AN OUTSIDE CHANCE OF SHOWERS AND THUNDERSTORMS OVER HIGHER TERRAIN NORTH AND EAST OF PHOENIX. THE FINAL DISTURBANCE WILL ROTATE TOWARDS THE REGION BY THE END OF THE WEEKEND.

DISCUSSION...

A LARGE NEGATIVE HEIGHT ANOMALY DIGGING INTO THE SWRN CONUS WILL BE THE FOCUS FOR SIGNIFICANT WEATHER LOCALLY AND DOWNSTREAM INTO THE CENTRAL UNITED STATES THE NEXT SEVERAL DAYS. BOTH WV IMAGERY AND OBJECTIVE ANALYSIS DEPICT AN INITIAL LEAD VORTICITY MAXIMUM PUNCHING THROUGH SRN NEVADA THIS MORNING...AND A SECONDARY VORTICITY LOBE DESCENDING SOUTH FROM NRN CALIFORNIA THROUGH THE WRN PERIPHERY OF THE DEEPENING TROUGH AXIS. THE LEAD WAVE IS ASSOCIATED WITH THE FRONT EDGE OF A NARROW JET CORRIDOR AND BOUNDARY LAYER FRONTAL ZONE. CORRESPONDINGLY...THE BEST SFC PRESSURE FALLS HAVE OCCURRED UNDER THE DIFLUENT LEFT FRONT JET QUADRANT IN SRN NEVADA. A FAIRLY TIGHT GRADIENT HAS MATERIALIZED OVER SERN CALIFORNIA (KSAN-KLAS DELTA_P GREATER THAN 14MB) YIELDING FREQUENTLY GUSTY WINDS DESCENDING OFF HIGHER TERRAIN OF SAN BERNADINO AND SAN DIEGO COUNTIES. RATHER SUBSTANTIAL 90M H5 HEIGHT FALLS WILL CONTINUE TO TRANSLATE INTO NRN/CNTRL ARIZONA THIS AFTERNOON...REINFORCED BY THE AFOREMENTIONED SECONDARY VORTICITY CENTER EXTENDING AND AMPLIFYING EQUATORWARD DURING THE DAY. THIS WILL SWING A MDTROPOSPHERIC FRONT AND MUCH COOLER ENVIRONMENTAL PROFILES INTO THE FORECAST AREA...AS WELL AS PROMOTING EFFICIENT MIXING OF HIGHER MOMENTUM H7-H8 WINDS TOWARDS THE SFC. AS A RESULT...WHILE TEMPERATURES WILL NOTICEABLY FALL AROUND 10F BELOW NORMAL TODAY AND A BRIEF SHOWER COULD CONCEIVABLY PROPAGATE SOUTH THROUGH WEST CENTRAL ARIZONA...IT WILL BE THE GUSTY WINDS AND LOCAL BLOWING DUST THAT WILL BE THE LARGEST WEATHER IMPACT.

DETERMINISTIC AND ENSEMBLE OUTPUT HAS CHANGED VERY LITTLE IN RECENT MODEL ITERATIONS WITH THE BEST JET CORE AT THE TOP OF THE MIXING LAYER CUTTING INTO FAR SOUTHERN CALIFORNIA/SWRN ARIZONA. ENSEMBLE MEANS SHOW 35-40KT H8-H7 WIND SPEEDS THROUGH IMPERIAL AND YUMA COUNTIES...EQUATING TO A NORMALIZED 95TH-99TH HISTORICAL PERCENTILE...OF WHICH A LARGE PERCENTAGE WOULD MIX TO THE GROUND. FURTHER TO THE EAST IN CENTRAL ARIZONA...THE STRONGEST WINDS WITHIN THE MIXING LAYER LOOK TO BE CLOSER TO A 30-35KT RANGE WHILE THE NORTHWEST PART OF THE FORECAST AREA MAY BEGIN TO FALL WITHIN THE CYCLONIC CORE OF THE VORTICITY CENTER CIRCULATION (AND THUS WEAKER WIND FIELDS). REGARDLESS...IMPACTS IN THE FORM OF LOCAL DUST CHANNELS AND MORE DIFFUSE LOFTED DUST WILL BE FELT ACROSS THE ENTIRE REGION...THOUGH THE GREATEST OPPORTUNITY FOR DENSE BLOWING DUST AND SAND APPEAR TO LIE IN THE SOUTHWEST PORTION OF THE CWA. OTHERWISE...

Fig A-10: The weather disturbance was expected to bring increased surface gradients and gusty winds to a wide region. Source: NWS Phoenix

FIGURE A-11
DAMAGING WINDS FOR SAN DIEGO DESERTS APRIL 25, 2016, 2016

Message: NOAA-NWS-ALERTS-
 CA1255F6FAB050.WindAdvisory.1255F708A8E0CA.SGXNPWSGX.5f71df5b7679c81347ae42218298aa14
 from w-nws.webmaster@noaa.gov

Sent: 07:44 PDT on 04-25-2016

Effective: 07:44 PDT on 04-25-2016

Expires: 23:00 PDT on 04-25-2016

Event: Wind Advisory

Alert:

...STRONG WINDS THROUGH THIS EVENING...

...POSSIBLE DAMAGING WINDS IN THE DESERTS...

.LOW PRESSURE OVER THE GREAT BASIN WILL BRING STRONG AND GUSTY WEST WINDS TO THE REGION THROUGH THIS EVENING...MAKING FOR HAZARDOUS DRIVING CONDITIONS...WITH BLOWING SAND AND DUST IN THE DESERTS. WINDS WILL DIMINISH LATE TONIGHT.

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

* WINDS...WIDESPREAD WEST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH. ISOLATED GUSTS TO 70 MPH ALONG THE DESERT SLOPES.

* TIMING...THE STRONGEST WINDS WILL OCCUR THIS AFTERNOON AND EVENING.

* LOCATION...SOUTHERN CALIFORNIA MOUNTAINS.

* IMPACTS...STRONG WINDS WILL MAKE TRAVEL DIFFICULT FOR HIGH PROFILE VEHICLES. BLOWING DUST AND SAND MAY CAUSE TRAVEL DIFFICULTIES AND HEALTH HAZARDS. WATCH FOR BROKEN TREE LIMBS AND OTHER WIND BLOWN DEBRIS.

Instructions: A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

Target Area: Riverside County Mountains
 San Bernardino County Mountains
 San Diego County Mountains

Forecast Office: NWS SanDiego (Southwestern California)

US Dept of Commerce	Disclaimer	Privacy Policy
National Oceanic and Atmospheric Administration	Information Quality	Freedom of Information Act (FOIA)
National Weather Service	Credits	About Us
1325 East West Highway	Glossary	Career Opportunities
Silver Spring, MD 20910		
Page Author: NWS Internet Services Team		

Fig A-11: The strength of the storm was so great that the NWS San Diego office issued a Wind Advisory for possible damaging winds in the deserts. Isolated gusts of 70 mph were expected along desert slopes. This area was upwind of the air quality monitors in Imperial County. Source: NWS San Diego

FIGURE A-12
LOW PRESSURE SYSTEM CREATES HIGH WINDS ACROSS SOUTHERN CALIFORNIA APRIL 25, 2016, 2016

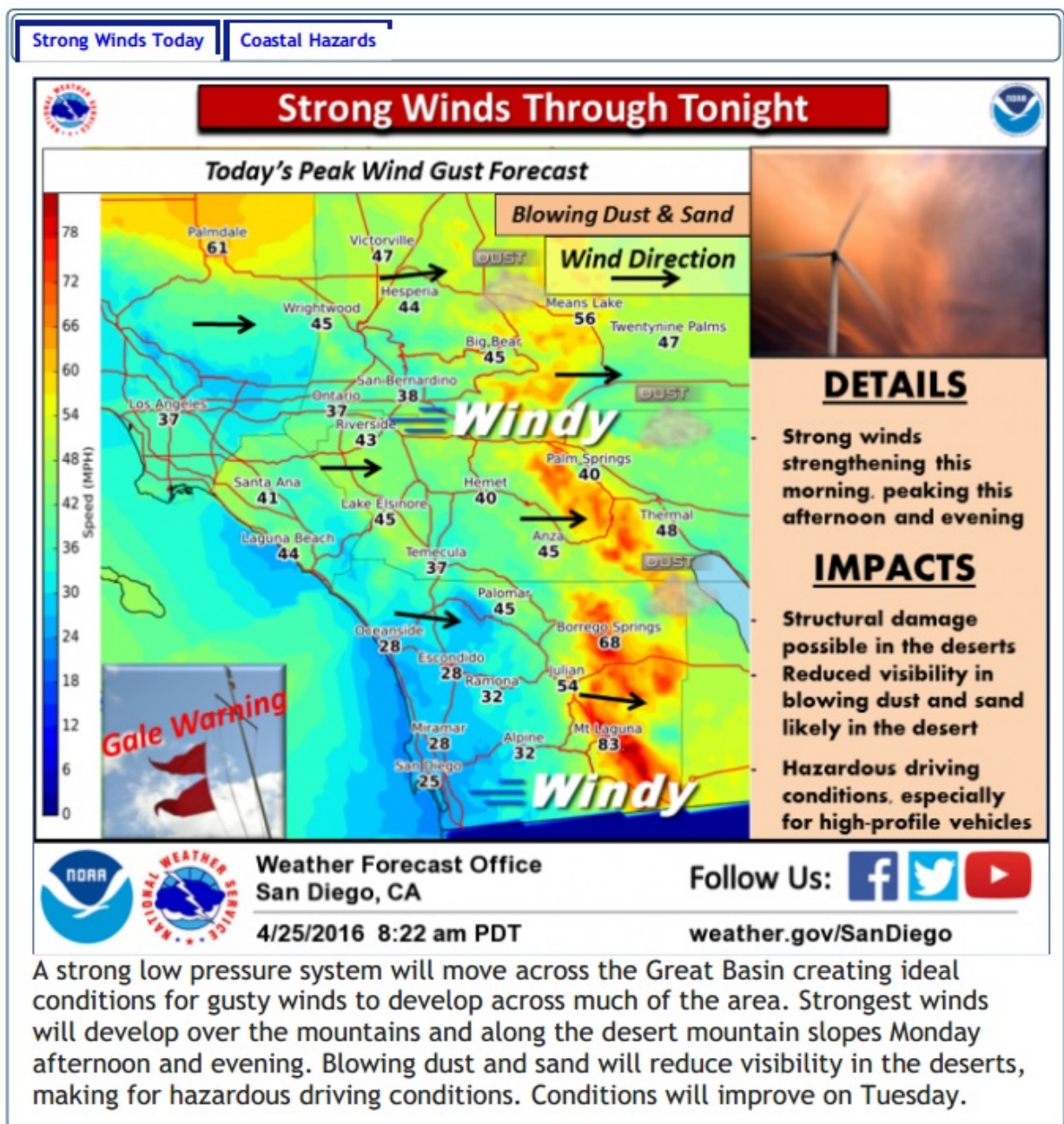


Fig A-12: A low pressure system moving through the region brought high winds and blowing dust to the deserts. Source: NWS San Diego Weather Story

FIGURE A-13 **BLOWING DUST ADVISORY FOR IMPERIAL COUNTY APRIL 25, 2016, 2016**

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE PHOENIX AZ
 113 PM MST MON APR 25 2016

**.A COLD FRONT WILL SWEEP ACROSS SOUTHERN CALIFORNIA AND ARIZONA
 TODAY LEADING TO STRONG WINDS AND AREAS OF BLOWING DUST.**

AZZ020-025>028-CAZ031-033-260500-
 /O.NEW.KPSR.DU.Y.0006.160425T2013Z-160426T0500Z/
 /O.CON.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-
 SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-
 NORTHWEST AND NORTH CENTRAL PINAL COUNTY-
 LOWER COLORADO RIVER VALLEY CA-IMPERIAL COUNTY-
 INCLUDING THE CITIES OF...EHRENBERG...PARKER...
 FORTUNA FOOTHILLS...SAN LUIS...SOMERTON...YUMA...DATELAND...
 TACNA...WELLTON...GILA BEND...APACHE JUNCTION...CASA GRANDE...
 COOLIDGE...FLORENCE...BLYTHE...BRAWLEY...CALEXICO...EL CENTRO...
 GLAMIS...IMPERIAL...THE SALTON SEA
 113 PM MST MON APR 25 2016 /113 PM PDT MON APR 25 2016/

**...BLOWING DUST ADVISORY IN EFFECT UNTIL 10 PM MST /10 PM PDT/
 THIS EVENING...**
 ...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM MST /10 PM PDT/
 THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST
 ADVISORY...WHICH IS IN EFFECT UNTIL 10 PM MST /10 PM PDT/ THIS
 EVENING.

*** AFFECTED AREA...THE LOWER DESERTS OF SOUTH-CENTRAL AND SOUTHWEST
 ARIZONA AND SOUTHEAST CALIFORNIA. THIS INCLUDES GILA BEND...CASA
 GRANDE...MARICOPA...COOLIDGE...YUMA...TACNA...EL CENTRO...IMPERIAL
 AND INTERSTATES 10...8 AND LOCAL HIGHWAYS THROUGH THESE AREAS
 INCLUDING AZ 347...AZ 85...U.S. HIGHWAY 95 AND CA 78.**

* TIMING...THIS AFTERNOON AND EVENING.

*** WINDS...WESTERLY AT 20 TO 30 MPH WITH GUSTS OF 40 TO 45 MPH.**

*** VISIBILITY...DOWN BELOW 1 MILE AT TIMES WITH LOCALIZED DUST
 CHANNELS/STREAMS AND FOR BRIEF PERIODS. BROADER REGIONAL VISIBILITY
 DEGRADATION TO PERSIST INTO THE AFTERNOON AND EVENING HOURS.**

* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED
 VISIBILITY IN BLOWING DUST AS WELL AS STRONG CROSS WINDS ON NORTH-
 SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS INCLUDE INTERSTATE
 8...INTERSTATE 10...AND HIGHWAY 347.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR
 HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
 CAUTION.

**Fig A-13: A Blowing Dust Advisory was issued on April 24, 2016, 2016 for southeastern
 California that Imperial County. Large swaths of south-central and southwest Arizona
 were also included. Local gusts were expected to reach 55 mph. Dangerous crosswinds
 and blowing dust/sand was expected. Source: NWS Phoenix office**

FIGURE A-14
WIND ADVISORY REMAINS IN PLACE FOR IMPERIAL COUNTY APRIL 25, 2016, 2016

National Weather Service
Watches, Warnings & Advisories
One product issued by NWS for: El Centro CA
Wind Advisory
URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
123 PM MST SUN APR 24 2016
.A DRY COLD FRONT WILL SWEEP ACROSS SOUTHERN CALIFORNIA AND ARIZONA TONIGHT AND MONDAY LEADING TO PERIODS OF STRONG WINDS.
CAZ030-033-251300-
/O.CON.KPSR.WI.Y.0008.160425T0000Z-160426T0500Z/
JOSHUA TREE NATIONAL PARK-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...**BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...IMPERIAL...
THE SALTON SEA**
123 PM PDT SUN APR 24 2016
**...WIND ADVISORY REMAINS IN EFFECT FROM 5 PM THIS AFTERNOON TO
10 PM PDT MONDAY...**
* AFFECTED AREA...IMPERIAL COUNTY AND JOSHUA TREE NATIONAL PARK.
* TIMING...STARTING LATE THIS AFTERNOON AND CONTINUING FOR MUCH
OF THE NIGHT THEN RESTRENGTHENING DURING THE DAY MONDAY BEFORE
WEAKENING LATE MONDAY EVENING.
* **WINDS...WEST AT 25-35 MPH WITH GUSTS OF 40-45 MPH...LOCALLY
GUSTING 50-55 MPH ALONG INTERSTATE 8 NEAR THE SAN DIEGO COUNTY
BORDER.**
* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED
VISIBILITY IN **BLOWING DUST AND SAND** AS WELL AS STRONG CROSS-
WINDS ON NORTH-SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS
INCLUDE INTERSTATE 8...INTERSTATE 10...HIGHWAY 111...AND
HIGHWAY 78.
PRECAUTIONARY/PREPAREDNESS ACTIONS...
WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR
HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

Fig A-14: A Wind Advisory remained in effect for Imperial County on April 25, 2016.

Source:

http://forecast.weather.gov/showsigwx.php?warnzone=CAZ033&warncounty=CAC025&firewxzone=CAZ232&local_place1=El%20Centro%20CA&product1=W... ½

FIGURE A-15
BLOWING DUST IDENTIFIED OVER SOUTHEASTERN CALIFORNIA

Monday, April 25, 2016, 2016

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY

THROUGH 0230Z April 26, 2016

DUST:

Southwestern US/Northwestern Mexico:

A rather significant blowing dust event was underway this afternoon and evening across a broad region stretching from southern California and northern Baja/northwestern Mexico into southwestern Arizona and curving northeastward from there over central and northeastern Arizona. Multiple source points for this blowing dust were seen along the visible swath of dust with the thickest portion (moderately dense) of the dust covering the desert region near and east of the Salton Sea in southern California, far northern Baja and far northwestern Mexico, and southwest to south central Arizona.

Fig A-15: NOAA's Smoke Text Product (effective through 1830 PST April 25, 2016) identified blowing dust near the Salton Sea in southeastern California. Source: <http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2016/2016D260240.html>

FIGURE A-16
IMPERIAL COUNTY ISSUED NO BURN DAY APRIL 24, 2016, 2016

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Sunday, April 24, 2016

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	65	WNW-5	10
8 AM	70	CALM	10
9 AM	73	NW-5	10
10 AM	76	NNW-7	10
11 AM	78	VRBL-5	10
NOON	82	VRBL-6	10
1 PM	84	NNW-9G20	10
2 PM	86	N-13G23	10
3 PM	87	N-14G20	10
4 PM	87	N-9G16	10
5 PM	88	N-5	10
6 PM	88	N-8	10
7 PM	85	WNW-3	10

Max. Temperature yesterday was 88 degrees

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 87-92

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	<u>N/A</u>	<u>10:00 am</u>
Forecast of Maximum Mixing Height	<u>N/A</u> feet	<u>10,560</u> feet
Forecast for Morning surface winds	<u>SW 0-5</u> mph	<u>SW 0-5</u> mph
Forecast for afternoon surface winds	<u>SW 15-25</u> mph	<u>SW 15-25</u> mph
Forecast for evening surface winds	<u>SW 15-25</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>SW 15-25</u> mph	

Comments/Complaints: GUSTS UP TO 35 MPH IN THE AFTERNOON

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XXX

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-16: A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on April 24, 2016, 2016

FIGURE A-17
IMPERIAL COUNTY ISSUED NO BURN DAY APRIL 25, 2016, 2016

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Monday, April 25, 2016

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	70	CALM	10
8 AM	77	CALM	10
9 AM	81	VRBL-3	10
10 AM	84	E-7	10
11 AM	87	VRBL-5	10
NOON	89	VRBL-5	10
1 PM	91	N/A	10
2 PM	92	VRBL-6G17	10
3 PM	93	S-19	10
4 PM	93	SW-13	10
5 PM	90	SW-18	10
6 PM	85	W-26G32	10
7 PM	81	W-23G31	10

Max. Temperature yesterday was 88 degrees

Today's Mt. Signal Visibility at 7:30 AM Hazy NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 76-81

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	<u>N/A</u>	<u>9:00 am</u>
Forecast of Maximum Mixing Height	<u>N/A</u> feet	<u>9,990</u> feet
Forecast for Morning surface winds	<u>W 20-35</u> mph	<u>W 20-35</u> mph
Forecast for afternoon surface winds	<u>W 20-35</u> mph	<u>W 20-35</u> mph
Forecast for evening surface winds	<u>W 20-35</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>W 20-35</u> mph	

Comments/Complaints: GUSTS UP TO 50 MPH IN THE AFTERNOON

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XXX

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-17: A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on April 25, 2016, 2016

FIGURE A-18
AIR QUALITY ALERT APRIL 25, 2016, 2016

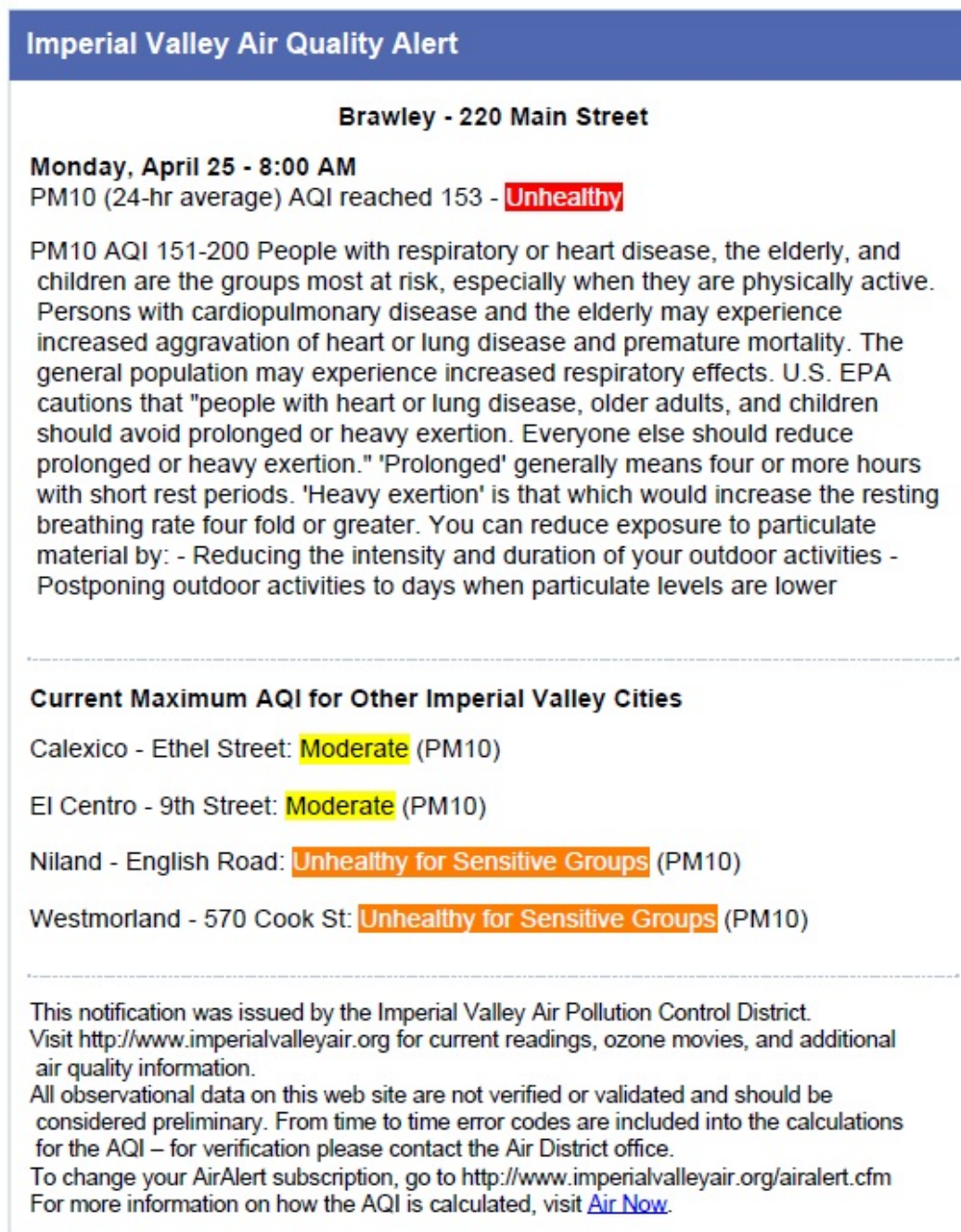


Fig A-18: The ICAPCD issued an air quality alert on its website at 08:00 p.m. on April 25, 2016, 2016, informing the public that air quality had entered the Unhealthy range. Source: ICAPCD archives

FIGURE A-19
AIR QUALITY ALERT APRIL 25, 2016, 2016

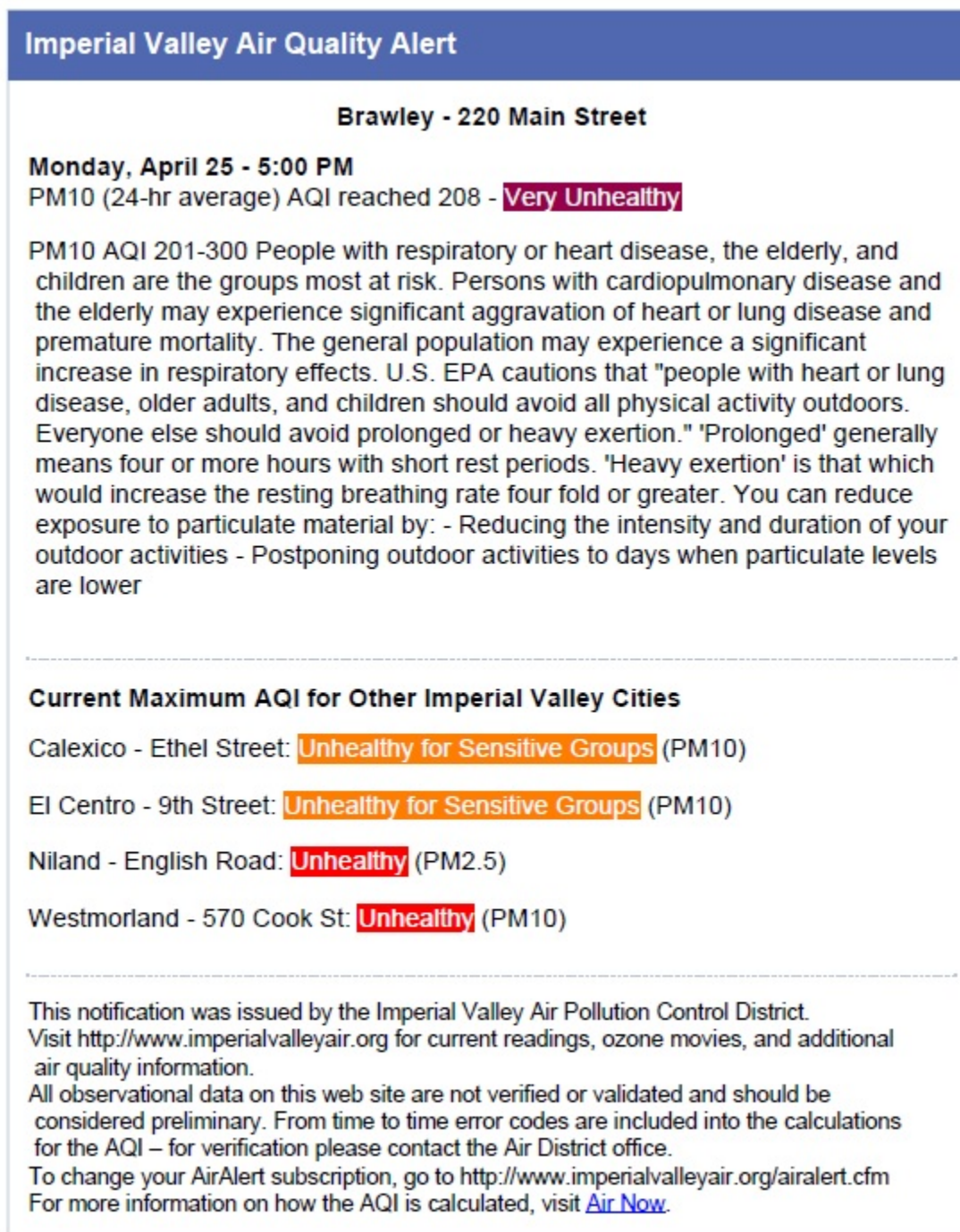


Fig A-19: So much dust was stirred up air quality in the Brawley area entered the Very Unhealthy range at 5 p.m. on April 25, 2016. Source: ICAPCD archives

FIGURE A-20
AIR QUALITY INDEX

Air Quality Index Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

Fig A-20: The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country. Source:

<https://airnow.gov/index.cfm?action=aqibasics.aqi>

FIGURE A-21

IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

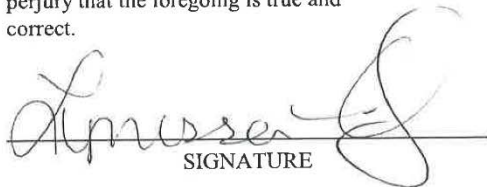
Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/10.

all in the year 2018

I certify (or declare) under penalty of perjury that the foregoing is true and correct.


SIGNATURE

Name of Account: I C AIR POLLUTION
CONTROL
Order Number: 11136200
Ad Number: 31356303

* Printer, Foreman of the Printer, or Principal Clerk of the Printer
Date: 10 th day of January, 2018.
at El Centro, California.

This space is for the County Clerk's
Filing Stamp:

AIR POLLUTION CONTROL DISTRICT
NOTICE OF AVAILABILITY
OF THE DEMONSTRATION OF THE OCCURRENCE
OF 13 EXCEPTIONAL EVENTS (EE)

The Imperial County Air Pollution Control District (Air District) has prepared 13 Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a Federal Reference Method monitor (FRM) or with a continuous Federal Equivalent Method monitor (FEM) represent the 13 Draft EE's.

2014				2015				2016			
April 12-13	Niland	FEM	167.5 ug/m ³	March 6	Brawley	FEM	237 ug/m ³	April 22	Westmorland	FEM	192 ug/m ³
	Brawley	FEM	166.8 ug/m ³		Westmorland	FEM	220 ug/m ³		Brawley	FEM	242 ug/m ³
April 28-30	Niland	FEM	183.4 ug/m ³	March 11	Imperial	FEM	178 ug/m ³	April 24-25	Brawley	FRM	186 ug/m ³
	Brawley	FEM	313.3 ug/m ³		Westmorland	FEM	179 ug/m ³		Imperial	FRM	218 ug/m ³
May 5-6	Brawley	FRM	209 ug/m ³	March 28	Brawley	FEM	334 ug/m ³		Westmorland	FEM	177 ug/m ³
	Brawley	FRM	225.5 ug/m ³		El Centro	FRM	285 ug/m ³		Imperial	FEM	285 ug/m ³
	Westmorland	FRM	375 ug/m ³		Niland	FEM	334 ug/m ³		Westmorland	FEM	225 ug/m ³
	Brawley	FRM	439.3 ug/m ³		Westmorland	FEM	465 ug/m ³		Westmorland	FEM	244 ug/m ³
May 11	Niland	FEM	172.8 ug/m ³	April 14	Niland	FEM	172.8 ug/m ³	May 5	Brawley	FRM	163 ug/m ³
	Westmorland	FEM	163 ug/m ³		Westmorland	FEM	163 ug/m ³		Niland	FRM	172 ug/m ³
	Brawley	FEM	183.7 ug/m ³		Brawley	FEM	228 ug/m ³		Westmorland	FEM	227 ug/m ³
June 30	Niland	FEM	183.7 ug/m ³					May 15	Niland	FEM	216 ug/m ³

The public and all interested parties are encouraged to review and comment on the 13 Draft EE's listed above. These demonstrations provide the supporting evidence that on the days indicated for 2014, 2015 and 2016 Air District air monitors were affected by entrained elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event entrained PM10 into the region affecting Riverside, Imperial and San Diego counties. The 13 Draft EE's provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is February 12, 2018 by close of business.

The 13 Draft EE's for days listed above are available for download at the Air District website at www.co.imperial.ca.us, under "Air Pollution". To view a hard copy of any of the 13 Draft EE's, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and as for Monica N. Soucier.

L673 J10

Fig A-21: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for April 24, 2016, 2016 and April 25, 2016, 2016. The date for closing comments was February 12, 2018

FIGURE A-22
IMPERIAL COUNTY COMMENTS
REGARDING THE APRIL 24, 2016, 2016 AND APRIL 25, 2016, 2016 EE DEMONSTRATIONS

The ICAPCD received no comment